INTERNATIONAL SEARCH REPORT

ional Application No 03/08197

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/82 A01H1/00

C12N15/11

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N A01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE

C. DOCUME	ENTS CONSIDERED TO BE RELEVANT	-	· · · · · · · · · · · · · · · · · · ·
Category °	Citation of document, with indication, where appropriate, of	the relevant passages	Relevant to claim No.
x	CHIANG M S ET AL: "TRANSFER TO RACE 2 OF PLASMODIOPHORA-B BRASSICA-NAPUS TO CABBAGE BRASSICA-OLERACEA-SSP-CAPITAT INHERITANCE OF RESISTANCE" EUPHYTICA, vol. 32, no. 2, 1983, pages 4 XP008025438 ISSN: 0014-2336 page 482, last sentence page 482, line 2 - line 4; fi WO 00 055340 A (PIONEER HI-BEINTERNATIONAL, INC.) 21 September 2000 (2000-09-21 SEQ ID NO:3	RASSICAE FROM A 5. THE A79-484, gure 1 RED	1,4, 11-25
° Special ca "A" docume	her documents are listed in the continuation of box C. ategories of cited documents: ent defining the general state of the art which is not dered to be of particular relevance	"T" later document published after the interior priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the	emational filing date the application but eory underlying the
filing of "L" docume which citatio "O" docume other	document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another or or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but	"X" document of particular relevance, tile i cannot be considered novel or cannot involve an inventive step when the do "Y" document of particular relevance; the cannot be considered to involve an indocument is combined with one or ments, such combination being obvicting the art.	ocument is taken alone claimed invention wentive step when the ore other such docupuls to a person skilled

Name and mailing address of the ISA

Date of the actual completion of the international search

17 December 2003

document published prior to the international filing date but later than the priority date claimed

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

"&" document member of the same patent family

Authorized officer

Date of mailing of the international search report

D 6. O1. 2004

Schönwasser, D

INTERNATIONAL SEARCH REPORT

	ntion) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	
Т	DATABASE GSN [Online] 20 November 2003 (2003-11-20) CHANG H. ET AL.: "Rice gene SEQ ID NO:4190" Database accession no. ADA70867 XP0022655512	34,35
P,X	abstract -& WO 03 000898 A (SYNGENTA PARTICIPATIONS AG) 3 January 2001 (2001-01-03) SEQ ID NO:4190	34,35
A	MATSUMOTO ETSUO ET AL: "Linkage analysis of RFLP markers for clubroot resistance and pigmentation in Chinese cabbage (Brassica rapa ssp. pekinensis)" EUPHYTICA, vol. 104, no. 2, 1998, pages 79-86, XP008025589 ISSN: 0014-2336 abstract: first two sentences the whole document	13,16, 37-45
A	LANDRY B S ET AL: "A GENETIC MAP FOR BRASSICA-OLERACEA BASED ON RFLP MARKERS DETECTED WITH EXPRESSED DNA SEQUENCES AND MAPPING OF RESISTANCE GENES TO RACE 2 OF PLASMODIOPHORA-BRASSICAE WORONIN" GENOME, vol. 35, no. 3, 1992, pages 409-420, XP008025588 ISSN: 0831-2796 the whole document	13,16, 37-45
A	DATABASE WPI Week 199728 Derwent Publications Ltd., London, GB; AN 1997-305513 XP002264817 & JP 09 117284 A (YASAI CHAGYO SHIKENBACHO), 6 May 1997 (1997-05-06) abstract	1-11,13, 16,37-45
P,A	DATABASE WPI Week 200314 Derwent Publications Ltd., London, GB; AN 2003-145043 XP002264818 & KR 010 006 352 A (UNIV CHUNGNAM NAT), 14 August 2002 (2002-08-14) abstract	1-11,13, 16,37-45
in the second		





Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: 31,32 because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(ii) PCT - Essentially biological process for the production of plants
2. X Claims Nos.: 1-12,14,15,17-26 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
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3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report
As only some of the required auditorial seator loss were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is.
4. No required additional search fees were timely paid by the applicant. No restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-12,14,15,17-26

Present claims 1-12,14,15,17-26 relate to B. oleracea plants resistant to clubroot disease as well as to seeds, fruits, parts and uses thereof, defined by reference to the following parameters:

P1: the nature of the resistance, namely that it is monogenic and dominant;
P2: the "characterisation" of the resistance by defining primers that

allow to obtain a marker which is linked to said resistance;
P3: by indicating from which plants said resistance can be obtained, or
P4: by indicating a segregation pattern for crosses between some "tester"
plant and the claimed plant.

The use of these parameters in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to compare the parameters the applicant has chosen to employ with what is set out in the prior art. The lack of clarity is such as to render a meaningful complete search impossible. Consequently, the search has been restricted to those parts of the claims which appear to be clear, namely those parts relating to the subject-matter of claims 13,16 and dependent claims as well as to subject-matter of claims 27-30 and 33-45.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

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Information on patent family members

Interional Application No PCT/ 3/08197

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 00055340	Α	21-09-2000	AU WO	3604100 A 0055340 A1	04-10-2000 21-09-2000
WO 03000898	 A	03-01-2003	WO	03000898 A1	03-01-2003
JP 9117284	A	06-05-1997	JР	2730670 B2	25-03-1998
KR 010006352	Α		NONE		